

## **CLAIMS**

### **WHAT IS CLAIMED:**

1. A method, comprising:
  - 5 sending an optical signal from a first apparatus to a second apparatus; receiving a reflection of said optical signal from said second apparatus; and adjusting a position of one of said apparatuses relative to the other apparatus based upon said reflection.
- 10 2. The method of claim 1, wherein sending said optical signal from said first apparatus to said second apparatus further comprises sending said optical signal from an optical source affixed upon said first apparatus.
- 15 3. The method of claim 2, wherein sending said optical signal from said first apparatus to said second apparatus further comprises directing an incident light from said optical source based upon a predetermined incident angle.
- 20 4. The method of claim 3, wherein an optical signal from said first apparatus to said second apparatus further comprises directing an incident light from said optical source to a reflective material affixed upon said alignment object.
5. The method of claim 4, wherein adjusting said position of one of said apparatuses relative to the other apparatus based upon said reflection further comprises adjusting said incident angle.

6. The method of claim 5, wherein receiving said reflection of said optical signal from said second apparatus further comprises receiving said reflection upon a screen.
- 5 7. The method of claim 6, wherein receiving said reflection of said optical signal from said second apparatus further comprises receiving a reflected signal based upon a reflected angle.
- 10 8. The method of claim 1, wherein adjusting said position of one of said apparatuses relative to the other apparatus based upon said reflection further comprises adjusting the incident angle to change a location on the screen upon which said reflective light is received.
- 15 9. The method of claim 8, wherein adjusting said position of one of said apparatuses relative to the other apparatus based upon said reflection further comprises using a feedback control system to adjust the incident angle.
10. A system for positioning a first apparatus in relation to a second apparatus, comprising:  
20 an optical source affixed to said first apparatus, said optical source for directing an incident light to said second apparatus; and  
a light receiving unit to receive reflective light reflected from said second apparatus, said reflective light being used to adjust the positioning of said first apparatus in relation to the second apparatus.

11. The system of claim 10, wherein said light receiving unit comprises a screen to receive said reflective light.

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12. The system of claim 11, wherein said screen comprises a plurality of markings to provide a location on said screen upon which the reflective light is received.

- 10 13. The system of claim 12, wherein said light receiving unit comprises means for providing a signal that is indicative of said location on said screen upon which the reflective light is received.

- 15 14. The system of claim 12, further comprising:  
a feedback control unit to receive data from said optical source and said light receiving unit; said feedback control unit to generate an alignment control signal; and  
an alignment unit operatively coupled to said feedback control unit, said alignment unit to affect the alignment of at least one of said first and second apparatuses based upon said alignment control signal.

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15. The system of claim 14, wherein said feedback control unit comprises a controller to determining an incident angle of said incident light and generate said alignment control signal based upon said incident angle.

16. The system of claim 14, wherein said alignment unit comprises a control system to adjust an alignment of at least one of said first and second apparatuses based upon said alignment control signal.
- 5 17. The system of claim 16, wherein said control system comprises a servo motor to affect the positioning of at least one of said first and second apparatuses.
18. The system of claim 10, wherein said first apparatus is a testing device.
- 10 19. The system of claim 18, wherein said testing device is at least one of a photometer and a radiometer.
20. The system of claim 10, wherein said second apparatus is a computer display device.
- 15 21. The system of claim 20, wherein said computer display device comprises a liquid crystal display (LCD) screen.
22. The system of claim 10, further comprising a reflective material affixed upon said second apparatus for providing said reflective light.
- 20 23. The system of claim 22, wherein said reflective material comprises a mirror.
24. The system of claim 10, wherein said second apparatus comprises at least one sensor for sensing said incident light.

25. The system of claim 23, further comprising a sensor controller operatively coupled to said sensor, said sensor controller to detect a signal from said at least one sensor indicating that an incident light was detected.

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26. An apparatus, comprising:  
means for sending an optical signal from a first apparatus to a second apparatus;  
means for receiving a reflection of said optical signal from said second apparatus; and  
means for adjusting a position of one of said apparatuses relative to the other  
10 apparatus based upon said reflection.

27. An apparatus for positioning a first device in relation to a second device, comprising an optical source affixed upon said first device, said optical source comprising a screen, said optical source to provide an incident light that is directed towards said second device from  
15 which a reflected light is received upon said screen; said apparatus being adapted to adjust the relative positioning between said first and second devices based upon an angle of said reflected light.

28. The apparatus of claim 27, wherein said screen comprises a plurality of markings to  
20 provide a location on said screen upon which said reflective light is received.

29. The apparatus of claim 28, wherein said apparatus further comprises means for providing a signal that is indicative of said location on said screen upon which the reflective light is received.

30. The apparatus of claim 27, wherein said reflective light is provided by a reflective material affixed upon said second device.
- 5 31. The apparatus of claim 30, further comprising:  
a feedback control unit to receive data from said optical source, said feedback control unit to generate an alignment control signal; and  
an alignment unit operatively coupled to said feedback control unit, said alignment unit to affect the alignment of at least one of said first and second devices  
10 based upon said alignment control signal.
32. The apparatus of claim 31, wherein said feedback control unit comprises a controller to determine an incident angle of said incident light and generate said alignment control signal based upon said incident angle.
- 15 33. The apparatus of claim 31, wherein said alignment unit comprises a control system to adjust an alignment of at least one of said first and second apparatuses based upon alignment control signal.
- 20 34. The apparatus of claim 33 wherein said control system comprises a servo motor to affect the positioning of at least one of said first and second apparatuses.
35. The apparatus of claim 27, wherein said first device is testing device.

36. The apparatus of claim 35, wherein said first device is at least one of a photometer and a radiometer.

37. The apparatus of claim 27, wherein said second device is a computer display device.

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38. The apparatus of claim 27, wherein said second device is a television display device.

39. The apparatus of claim 37, wherein said computer display device comprises a liquid crystal display (LCD) screen.

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40. A system for testing a computer display, comprising:

a testing unit for performing a test upon said computer display;

an optical source affixed to said testing unit, said optical source for directing an incident light to said computer display; and

15 a light receiving unit to receive reflective light reflected from said computer display, the location of said light receiving unit upon which said reflective light is received being used to adjust the positioning of said testing unit in relation to the computer display.

20 41. The system of claim 40, wherein said light receiving unit comprises a screen to receive said reflective light.

42. The system of claim 41, wherein said screen comprises a plurality of markings to provide a location on said screen upon which the reflective light is received.

43. The system of claim 40, wherein said testing unit is at least one of a photometer and a radiometer.
- 5 44. The system of claim 40, wherein said computer display device comprises a liquid crystal display (LCD) screen.
45. The system of claim 40, further comprises a reflective material affixed upon said computer display for providing said reflective light.